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## COLMAN'S RURAL WORLD.

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Published every Wednesday, in Chemiablished every Wednesday, in Chemi-building, corner of Eighth and Olive ets, St. Louis, Mo., at one dollar per r. Eastern office, Chalmer D. Col-n, 550 Temple Court, New York City. Pertisers will find the RURAL WORLD best advertising medium of its class the United States. Address all letters

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mention secured, larger interest in all expensive for the profiles of farm work will be taken. The success of one member of a community will attituate others to make similar will attituate others to make aimilar unposes of the object and much good will occur to the success of one member of a community will attituate others to make aimilar unposes of the object and much good will occur to the will attituate others to make aimilar and the profiles and much good will occur to the age of the object and much good will occur to the age of the object and much good will occur to the age of the object and profiles and much good will occur to the age of the object and profiles and the profiles and object in the profiles are object and profiles an



# The Dairy

FEEDING DAIRY COWS.

[The following excellent article was rritten just subsequently to the meeting f the Missouri State Dairy Association

nyra, Mo.] a native of our dear old state, it pleasure to attend a Mis-

read were an inspiration papers read were an inspiration and it seemed to me, while list to them, that the writers were indvidually to me. I am like who lived on the farm next to tr Hannibal, and whom I induced to church with me one Sunday. I hink he had ever attended church and after the service I was anxiber was uncommunicative and the was completely broken up and had to was the was completely broken up and had to was completely broken up and had to was anxiety.

HAY AND ROUGHNESS.—I also had a good deal to learn about hay and rought was more valuable.

the size of Texas, while pleas about as much space as Rhode pleas about samuel at their manner when they were told I was from Missouri. They would first give a startled look, then they would shall give a startled look, then they would first give a startled look manufactured the first give and to

experience. I was forced into the dairy business, and can now truly say I am mighty glad of it. Fourteen years ago axing of material. Every speck of our last summer we had a very dry season, nearly as bad in our neighborhood as that of 1801. My father and I were cultivating a small farm in th's county, and long in August of that year, after most of our season's work was over, we found that after plowing, harrowing, planting and cultivating, working early and late, the last and most essential part of our work, namely, the harvesting and marketing of our crops.

Among its advantages is the greater as he sees fit.

We are not worrying about the "dairy belt" in Labette county, Kansas. We is eaten clean, whereas when we fill fix was wasted. Another point is the greater plantability of the feed—that is, the cows of our season's work was over, we found that after plowing, harrowing, planting that after plowing, harrowing, planting the stage better than they do fodder, or any other feed for that matter. I have tried feeding sillage in one end of the there and bran or good clover in the other end, and the cows invariably eat the sillage first. I have tried feedings shore, who live outside of the "dairy belt," of course, and seem satisfied with the other end, and the cows invariably eat the sillage first. I have tried feedings shore, who we have the stage of the "dairy belt," of course, and seem satisfied with the other end, and the cows invariably eat the sillage first. I have tried feedings shore, where the same when we have neighbors of the masses of the same has been the "dairy belt" in Labette county, Kansas. We are not worrying about the "dairy belt" in Labette county, Kansas. We are not worrying about the "dairy belt" in Labette county, Kansas. We are not worrying about the "dairy belt" in Labette county, Kansas. We are not worrying about the "dairy belt" in Labette county, Kansas. We are not worrying about the "dairy belt" in Labette county, Kansas. We are not worrying about the "dairy belt" in Labette county, Ka

weighs."
"Great Scott," I said, "don't you think that is too much?"
"The only way I can get milk is to feed heavy, and that's what I am doing," the

A few months afterward I met the man and he was looking very despond-ent. I sa'd, "What's the matter now?"

"Matter enough," he answered, "I have lost five cows (one at a time) with milk-fever, and don't know how many

Sharples "Tubular" **Dairy Separators** 

the latest product of the world's leading Cream Separator manufactory. IGHEST PRIZE (KNIGHT'S DECORATION) AWARDED AT PARIS.

"Why?"

"But my neighbors bought a big supply and thought they were all right for winter as far as hay was concerned. Later a man came to my house and said, "I want to borrow your farm wagon."

"All right; there it is under the shedhelp hourself." But he continued:
"I want to hall that darned prairle hay."
"I want to hall that darned position."

like silage better than they do fodder, or or season's work was over, we found that after plowing, harrowing, planting and cultivating, working early and late, the last and most essential part of our work, namely, the harvesting and marketing of our crops, would take very little to the first time, because there was very little to harvest. Things indeed looked blue, and we wore our thinking caps all day and part of the night. The result was I made up my mind that we must either try dairy in the first than the do do. So it was that we started a dairy with six cows, and many the true that the tumber of misgivings as to the future. When I look back to that time that proper feeding, and then I ...ink that perhaps there are people to-day brother in proper feeding, and then I save in the proper feeding, and the save in the proper feeding, and then I save in the proper feeding, and the save in the proper feeding in the proper feeding, and the save in the proper feeding in the proper feeding, and the save in the proper feeding in the proper fe

cents. I would urge the greater use of it in its natural form for human food. It ought to be worth half as much as a per cent milk. For household purposes one can get out of it more than half the value of whole milk. For best and most econor best and most econ-must be used fresh and size of garnules and am

half or two-thirds the price of butter,
as is now done abroad, and if this in
done, two or three times as much as is
made now will be sold within five years.
The only way to counteract this is to
make a better quality of butter.
Pasteurization is now the fad. In Denmark over 30 per cent of the butter is
made from pasteurized cream and some
Western creameries are using it. Pasteurization was adopted and advocated
in Denmark, not for the improvement of
the quality of butter, but on the ground
of public health, because of the prevalence of tuberculosis in cattle. Through
the admixture of skimmilk at the separator stations, germs of tuberculosis were
being distributed from infected to healthy
herds, and it was to avoid this that a
law was passed securities. The receiving seng distributed from infected to nearly before a space of the skimmik. It was found in Kansas City in which to conduct more economical to pasteurize the whole milk before it is separated. This destroyed

butter was made was pasteurized and an for the past lifteen years and they have artificial starter used to ripen it. The thousands of friends among their customers, which shows that they keep the's ner. Private marks were put on the tubs to know which was pasteurized and which not, and it was then sent to the best butter dealers abroad for sale. They did not know which was the pasteurized butter. When their reports were made we checked them up and found that sometimes the pasturized butter was ahead and sometimes behind. At the end of the year the returns were a little in favor of natural butter.

of natural butter.

Our most popular bûtter judges have gone wild on flavor and forgotten that there is such a thing as body in butter. At a recent northwestern butter convention the gold medal was given to a tub of butter which 48 hours later was not fit to eat. The butter maker knew when he made it that it would not keep. Many butter makers are adepts in the art or keying up their butter so that it will have a high, flashy flavor at a certain time. They do this in order to win priges.

ST. keep. I would urge moderation in flavor and the butter makers strive for a perstent, unvarying flavor. We used to ave this at its best in New England dairy butter packed in May and June Butter makers should pay more attention to body, grain and mechanical condition. It is the body of butter that determines primarily the keeping quality, small per cent of butter is within a fortnight after it is made,

HOW TO MAKE GOOD BUTTER.

only about 10 cents after, and if found too warm, crushe their skimmilk. at ice is used. On the other hand, if to cold, some lukewarm water is used

before, and after the service I was anxious to hear what he had to say about it, but he was uncommunicate van and into the value of the va

the bacteria which ripens the cream, so that it was necessary to introduce artificial cultures or starters.

Previously there were many kinds of Inclal cultures or starters.

Previously there were many kinds of flavors, but the effect of the use of artificial starters was to bring about a greater degree of uniformity. In this, the Danish butter differs from that of the United States, as it is very uniform in quality, but is lacking in flavor, or has a low flavor and would not sell for first-class creamery butter in New York or Boston markets. Our butter is much higher in flavor, but more varied in character. The necessity has not risen in the United States for the adoption of pasteurization.

In regard to the export experiments in butter conducted by the department of agriculture for several years, we engaged from four creameries 1,000 pounds butter cach a week and sent this to Manchester and London. The results have been satisfactory. Half the milk from which this butter was made was pasteurized and an artificial starter, weak to rise. It is their intention to start a route here, and if such is the case we think each farmer will find it to his advantage to patronize them. As we understand their plan they send a man around every morning to gather cream which elimin ates the labor of making butter and the labor of making butter and the labor of making butter and the so valuable. They agree to pay promptly twice a month, and they invite the closest investigation with reference to weights and tests, which we think is very commendable. We have learned that this butter was made was pasteurized and an artificial starter, weak of the results have been satisfactory. Half the milk from which this butter was made was pasteurized and an artificial starter, weak of the results have been satisfactory. Half the milk from which this butter was made was pasteurized and an artificial starter, weak of the results about the particular and the payer of the results and the payer. promises. They established cream routes in Odessa and Blue Springs, Mo., when creamer'es and skimming stations were

losing every day. If this firm decides to establish a cream route in our vicinity we believe the enter-prise is worthy of patronage, and they should be greatly encouraged in starting

one here.

We believe in adopting any plan by which better results can be obtained, and this plan shows how farmers can obtain better prices, get their money oftener and raise better stock.—Gallatin (Mo.) Demo-

neans of a gas as that would have manural value, and here is one of the all that feed I see going down to all that feed I see going down to all that feed I see going down to all the the seed of producing more each year. Then how is the they keep hauding to you if you don't pay for it."

Then how is it they keep hauding to you if you don't pay for it."

The down the winter, or when pastures are short, some more and some less, and only or the short, some more and some less, and only or the short, some more and some less, and only or the short, some more and some less, and only or the short, some more and some less, and only or the short, some more and some less, and only or the short in the short, some more and some less, and only or the short in the short, some more and some less, and produced the short in the short, some more and some less, and produced the short in the short, some more and some less, and produced the short in the short, some more and some less, and provided that the more you what they sold for twenty years ago, and the short in the short, some more and some less, and provided the short in the short, some more and some less, and provided the short in the short, some more and some less, and provided the short in the short, some more and some less, and provided the short in the short, some more and some less, and provided the short in the short, some more and some less, and the short in the s power to penetrate everywhere. The ef-fectiveness of this method depends upon

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verage of production down in the dairy

Water, whether pumped into the milk can the well or out of the cow's udder, fill not make butter. It is the solids that

Cows that have an abundance of pu at all times will eat more food

Next to the selection of the bull comes he choice of the cows for milking pow-r, and it is here that milk records and







Entirely interwoven—no ends to get loose and injure stock or ravelout. Many heights. Circulars and special discounts free. ADVANCE FENCE CO. 110 Old St., Pearin. Ill.







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WATER-

# Horticulture

THE SUMMER MEETING

of the Missouri State Horticultural Society At Eldon, Miller Co., Mo., June

one of the seven sessions will be full of interest to fruit growers.

Eidon is about 50 miles southwest of Jefferson City, on the Bagneil branch of the Missouri Pacific railroad. A half-fare rate will be in force from all laissouri Pacific points in Missouri, on account of this meeting.

Send to Secretary L. A. Goodman, Kansas City, Mo., for a copy of the productive; large, firm berries of very good favor.

Empress (Per.)—Healthy: v gorous; on the Sharpeiss order; firm; the soil in the most excellent tith for strawberries again the following season.

O. W. BLACKNALL.

Vance Co., N. C.

Vance Co., N. C.

SITION.

BUDDING.—C. C., Appieton City, Mo.:
Would you please tell me through the RURAL WORLD when is the proper or best time to bud apple trees? I have some seedlings I wish to bud this year. They are not large enough now, but I think they will do in June.
Budding may begin as early in the season as sufficiently developed buds may be produced, and stocks are from the size of a lead pencil up.
By June budding is meant that the work be done early in the season, and as soon as the bud has set the stock is removed above the bud. The bud will push and a small tree be had the same season. Most budding is done from August to November. This is known as dormant budding. Buds are inserted in the latter part of the season, but, as a rule, do not start until the following spring, at which time stocks above them are removed. Best results are had at any time when bark slips easily, and buds are well matured.

MORE STRAWBERRY NOTES taken

quality.

No. 50 (Per.)—Seedling of Ruby. Kemarkable for its earliness, productiveness, firmness and quality.

No. 28 (Per.)—Seedling of Brandywine.

Plant all that could be desired, Fairly productive; uniformly large; desirable shape; large, handsome burr like its parent; remarkably firm. Best of all in quality.

HORTICULTURAL TALKS. NATURAL ADVANTAGES OF IN-DIANA FOR MARKET GARDENING.

the wnen park slips easily, and buds re well matured.

MORE STRAWBERRY NOTES taken lay 26.

W. J. Bryan-Healthy, vigorous prouctive, short fruit stem. Berry arge; relined to remain white on under side; ark color; quality good.

My J. Bryan—Healthy, vigorous productive, short fruit stem. Berry arge; inclined to remain white on under side; dark color; quality good.
Hardstone—Aimost if not quite mentical with Excelsior, though it ripened several days later. Seems to be firmer and not quite as product ve; very good.
Repeater (Per.)—Healthy, productive, large, pointed berries; rather sort; quality good.
Excelsior—Remarkably productive medium to large. Matures more berries and hokis up in size better than most early varieties. Can highly recommend it. H. & H.—Large, healthy plant; remark. Phillips Seedling (Per.)—Productive, remains a person of the seem and that they produce the remough; large and handsome; has the appearance of being varnished; firm; good quality; rather soft; one of the best.
Phillips Seedling (Per.)—Productive, remains a person of the state, we are furnished with markets are concerned, are practically unlimited, provided the conduction of the productive training and that this condition is not lacking in the state. Indiana possesses a great variety of soils, some of which are peculiarly medium in size; rough; not attractive. Has quantity in its favor in the production of both plants and berries.
Robbie (Per.)—Not yet ripe; looks promising.
Hunn—Appears to be very late and very productive.
Floyd (Imp.)—Plant shows a little rust; Floyd (Imp.)—Plant shows a little rust; Eight colored leaves; productive. Large, we have a bout of the southwest productive.
Floyd (Imp.)—Plant shows a little rust; Eight colored leaves; productive. Large, we have a productive tree of the southwest productive trained to remark the possibility to large the productive.
Floyd (Imp.)—Plant shows a little rust; Floyd (Imp.)—Plant shows a l

a little rust;

leaves; productive. Large, and desirable shape. Very urm; good quality.

Carrie Silvers (Imp.)—Fine, healthy plant. Berries large, handsome, quite firm; sour but good flavor; sometimes misshaped.

Bush Cluster—Healthy plant, producing great clusters of large berries on long stems; sometimes flattened and occalionally double, but very firm; quality bod. Size and quant ty are its strong clusters of large berries on long stems; sometimes flattened and occalionally double, but very firm; quality bod. Size and quant ty are its strong clusters of large berries on long stems; sometimes flattened and occalionally double, but very firm; quality bod. Size and quant ty are its strong clusters of large berries on long stems; sometimes flattened and occalionally double, but very firm; quality bod. Size and quant ty are its strong clusters of large berries on long stems; sometimes flattened and occalionally double, but very firm; quality bod. Size and quant ty are its strong clusters of large berries on long stems; sometimes flattened and occalionally double, but very firm; quality bod. Size and quant ty are its strong clusters of large berries on long stems; sometimes flattened and occalionally double, but very firm; quality bod. Size and quant ty are its strong clusters of large berries on long stems; sometimes flattened and occalionally double, but very firm; quality bod. Size and quant ty are its strong clusters. The cilmate of Indiana way be truly considered as very favor able to market gardening. A consideration was truly considered as very favor able to market gardening. A consideration was truly considered as very favor able to market gardening. A consideration was truly considered as very favor able to market gardening. A consideration was truly considered as very favor able to market gardening. A consideration was truly considered as very favor able to market gardening. A consideration was truly considered as very favor able to market gardening. A consideration was truly considered as very favor abl

Bush Clusters of large berries on long stems; sometimes flattened and occasionally double, but very firm; quality good. Size and quant ty are its strong points.

Pennell (Per.)—Fairly productive, large, good shape; very firm; quality very good; promising.

Monitor (Per.)—Healthy, short, stocky fruit. Moderately firm; quality good; shape producing large, round, attractive fruit. Moderately firm; quality good; cluster producing large round, attractive fruit of the strong loaded with fair-sized berries. One of the greatest factors in this awakening that he days and the apple trees are from eight to twelve and fourteen years old and the apple trees are from eight to twelve and fourteen years old and the apple trees are from eight to twelve and fourteen years old and the apple trees are from eight to twelve and fourteen years old and the apple trees are from eight to twelve and fourteen years old and the apple trees are from eight to twelve and fourteen years old and the apple trees are from eight to twelve and fourteen years old and the apple trees are from eight to twelve and fourteen years old and the apple trees are from eight to twelve and fourteen years old and the apple trees are from eight to twelve and fourteen years old and the apple trees are from eight to twelve and fourteen years old and the apple trees are from four to elght or divers are than awakening that the adaptability of certain soils for special crops. This educational not be free adaptability of certain soils for special crops. This educational propose and blossoms. Medium size; good quality.

St. Joseph (Per.)—Healthy; plant rather small; fairly productive. Fruit medium to large; dark red; pointed; fair quality. St. Joseph (Per.)—Has but few research the mother of the extent that it should be a developed to the extent that it should be and trimmed all the Keiffer pear trees. Eleared out the briers and underbrush and trimmed all the Keiffer pear trees, eleared out the briers and underbrush and trimmed all the Keiffer pear trees, eleared out th

The probability were good quite generality. All probability of the pro

Rough Rider (Per.)—Plant very vigorous, with dark, healthy fol age; fairly productive. Fruit large, dark, good quality; not very firm, as its name might indicate; late.

Corgican (Per.)—Large, attractive, healthy foliage; not very productive; berlies large, dark, firm and of very good quality.

No. 50 (Per.)—Seedling of Ruby. Hear markable for its earliness, productives, seems, firmness and quality.

No. 25 (Per.)—Seedling of Brandywhe.
Plant all that could be desired, Fairly productive; uniformly large; desirable

eturned from the Charleston Exposition feel like saying a good word for the york that has been and is yet being lone for the states of Illinois and Misregon has a grand exhibit there and s sure to reap a reward for the effort.

The Illinois exh'b t is a comprehensive one and shows what that great state is able to produce. The display of applies of the crop of 1901 is a wonder to all visitors. The agricultural display, especially that of corn and its products, is exceedingly fine. Mr. J. W. Stanton and others in charge have spared no labor or sk'll to make the exhibit both attractive and instructive. It is a credit to the state of Illinois.

Missouri has more room than she had at the Pan-American and has made a better exhibit. Mr. C. C. Bell and the others in charge have done their full duty. The apple show 's excellent, and there was some of the crop of 1900 on the tables not long since. The agricultural exhibit is very comprehensive and handsomely displayed. The same is true of the mineral exhibit.

It is to be regretted that so few people have attended the Charleston Exposition, because of the many beaut ful and instructive things to be seen, and that there might have been sufficient revenues to pay the expenses. The Charleston people and those of a large part of the Southern States deserve great credit for the enterprise shown and for the comprehensive and completed exposition which they have made and conducted during the past winter and spring.

H. E. VAN DEMAN.

or the fruit to fail off. Suil 1 times there will be a fair crop. We shipped a carload of pears to Minneapolis last fall and did tolerably well with them. From present prospects we think we will have a good crop of apples on two-thirds of our orch-

Poor Soils are made rich-

er and more productive and rich soils retain their crop-producing powers, by the use of fertilizers with a liberal percentage of

GERMAN KALI WORKS, New York City.

re killed by flat-head borers (they got their work up near the limbs while were leoking at the ground for them). part of that setting extended into a piece of ground, but tolerably well inted, and the cold winter of 1888 and

The St Louis Commission Company, 315-317 North Main street, St. Louis, offer exceptional prices on several varieties of cow peas on quick orders. See their advertisement in another column and get

sherially be detected by the dust roin their burrows. Cut them out with a knife. If they are difficult to get at follow them up with a small wire. Withdraw the wire and if a portion of the borer's vitals adhere you may rest assured he will do no further damage.

Thrifty trees making a vigorous growth are seldom attacked by borers. Good care and cultivation generally secure exception from this pest. Where young trees have been rabbit-proofed by wrapping wire screening around the trunks the borer beetle finds it difficult to find a place to deposit eggs. This is an important point in favor of the use of wire screening. We use it on all our young

cording to a statement by a Ken-ky woman, Mrs. C. J. Powell, she has nd a simple method of fighting the ton bugs. She says that she heads the bugs by sowing lettuce seed, after seeds of the melon, squash and cu-nber are planted, sowing above and und the other seeds. She states that has observed that the bugs always id lettuce. In due time, when the

RASPBERRY GROWING.

them.

I think the trees are so close together; they are 21 feet apart one way and 24 the other. I think, and in a very few years they will be together. I think 27x30 feet would be nearer right and one could set peach trees in between to occupy the space until the apples need it.

There is nothing that will take the place of Ben Davis for commercial purposes. They will come nearer bearing a good crop of big red apples every year than any variety we have tried.

Clinton Mo.

poses. They will come nearer bearing a good crop of big red apples every year than any variety we have tried.

Clinton, Mo. W. D. C.

PINCH RASPBERRY TIPS SPAR-INGLY.

The pinching back of growing raspberry canes in order to force the growth of lateral wood is frequently practiced by berry growers, but was thought to be an unwise proceeding. Two sets of experiments were, therefore, tried with blackcaps and red varieties, with the following results: In the pruned row the stumps were more numerous than in the unpruned, and where both tips and laterals have been pinched, more still. There were fewer berries, or rather a lighter yield, in the pruned than in the unpruned; naw says M. G. Kains. This might have been expeted, because the larger the number of canes the poorer the fruit, as a rule. The smallest yield was from plants trimmed in both laterals and stems.

The reason for this increased number of stumps or canes is that the raspberry produces its new growth from the bases been produces its new growth from the bases.

The reason for this increased number of stumps or canes is that the raspberry produces its new growth from the bases.

The hard bery bloom being used to build up with. However, if one has an extractor he may save considerable of this early flow. Last year we extracted boney, I have found it a good plan to use full sheet of future apple honey, but it had a flavor found it a good plan to use full sheet of future apple honey. I have for working for extracted honey, I have found it a good plan to use full sheet of future and use them in the brood chambers. This will give you nearly all workers and prevent the strength of the colony being wasted in producing a lot of worthless and use them in the brood chambers. The brook of the producing a lot of worthless and use them in the brood chambers. The way to do it is to take the comb wasted in producing a lot of worthless and its should be, however, the chances are nine out of ten of its all presenting the same fine, even appearance, says the comb, the col

The reason for this increased number of stumps or canes is that the raspberry produces its new growth from the bases of the old, or two-year-old stems. In this way the new canes resemble the laterals produced higher up on the stem, the difference being that they may not and normally do not appear the season the cane fruits, but push into growth the spring following. For these reasons, therefore, pinching induces an increased development of these buds at the bases of the stems, which wait only favorable conditions to develop.

From these trials the conclusion was drawn that great care must be exercised to remove as little as possible of the tips by summer pinching and to depend mainly upon the thinning of the stems after the leaves have fallen, or at least late enough to insure the non-development of the basal buds. How many stems to leave each plant will depend upon the soil, the variety and its behavior in the neighborhood.

ON QUICK ORDERS. and it is done without any climbing or mussing about it. If you find it neces-sary to handle a queen, do so very gently, not for fear of getting stung, for there is no danger of a queen stinging you, but because if you should mash the back part of her body when it is filled with eggs she might be rendered useless if not killed outright. Some people sometimes excuse them-selves from going to church and Sunday school because the bees might swarm.

\*\*\*\*\*\*\*\*\*\*\*\* Not what is said of it, but what it does, has made the fame of the

Elgin Watch

and made 10,000,000 Elgins neces sary to the world's work. Sold by every jeweler in the land; guar-anteed by the greatest watch works. ELGIN NATIONAL WATCH CO.

easily be seen the saving of honey in

A part of that setup.

A part of that setup.

A part of that setup.

I power of ground, but tolerably well and grain and last year there were pleked as high as four bushels of apples from some of the trees at eight years from the graft, and they were remarkably fine, too. This year later we planted 500 from the spring was dry and backward, and they headed out just about as one would have been been deed out just about as one would have headed out just about as one would have them.

THOUGHTS ON BEE CULTURE.

Fine weather, plenty of rain and sunshine, the things most necessary to grow and taken good care of, and if bees are one to grow than formerly, and prices are not so high; nevertheless, a large number of grown than formerly, and prices are not so high; nevertheless, a large number of grown than formerly, and prices are not so high; nevertheless, a large number of grown than formerly, and prices are not so high; nevertheless, a large number of grown than formerly, and prices are not so high; nevertheless, a large number of grown than formerly, and prices are not so high; nevertheless, a large number of grown than formerly, and prices are not so high; nevertheless, a large number of grown than formerly, and prices are not so high; nevertheless, a large number of grown than formerly, and prices are not so high; nevertheless, a large number of grown than formerly, and prices are not at the present time more raspberries are grown than formerly, and prices are not at the present time for out so the present time more raspberries are not at the present time for underline prese

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# Live Stock

DATE CLAIMS FOR LIVE STOCK

June 19-C. E. McLane, Danville, Ind. at Indianapolis. Double Standard Polled

POLAND-CHINAS.

FOLAND-CHINAS.
Oct. 30.—E. E. Axline, at Oak Grove. Mo. BERKSHIRES.
Aug. 6.—A. J. Lovejoy & Son. Roscov. Ili. ABERDEEN-ANGUS CATTLE.
June 10-11—Combination sale, W. C. Mc-Gavock, Manager, Chicago.
Aug. 6, 1902—Berkshires; A. J. Lovejoy & Son. Roscoe. Ill.



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Root us 20000 to have our artists and each state whether Expressings. Our International Stock Rook contains a finely illustrated Veterlancy Department is lastfered of Budders. This state of Stock Root is the Stock and Fuel International Stock Root in the Stock Roo

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the inflammation. Practically all animals make a good recovery in three to four weeks. In the history of live stock there has never been so much interest taken in pure breeds as now; we cannot stand; the inflammation. Practically all animals make a good recovery in three to four weeks. Sexperiment Station, Manhattan. The press will back us, the business men will stand by us, and shall we whose future prosperity to a large extent depends on the present decision, be found wanting?

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CONTAGIOUS SORE EYES IN CAT.

There exists in this and other western states a contagious inflammation of the eyes among cattle that is popularly called "pinkeye," from the red and inflamed appearance of the eye. The disease is quite widely distributed, and while it occurs at all seasons of the year it is most frequently observed during the summer months while cattle are on pasture, as dust and pollen from plants increase the sund and plant of the sunder of the dust and pollen from plants increase the sund and plant of the sunder of the sunder of the cyc. The disease is quite widely distributed, and while it occurs at all seasons of the year it is most frequently observed during the summer months while cattle are on pasture, as dust and pollen from plants increase the sunder of the cyc. The disease is quite with the process of the cyc. The disease is quite with the process of the cyc. The disease is quite with the process of the cyc. The disease is quite with the process of the cyc. The disease is quite with the process of the cyc. The disease is quite with the process of the cyc. The disease is quite with the process of the cyc. The disease is quite with the process of the cyc. The disease is quite with the process of the cy

ewt. lower; bulk soid from \$5.50 to \$6.00; op, \$6.50.

nd upwards, \$3.65@4.85, the bulk at \$4.0 4.35. Stock heifers, full range, \$2.500 75, and the bulk at \$3.00@3.50. Fancy 3.75, and the bulk at \$3.00@3.50. Fancy native helfers sell at \$4.52; there was a fair supply on the market. Choice nat ve helfers sell at \$5.50@6.00. Best native cows sell at \$5.50@6.75 and good helfers sell at \$4.00@5.00. Medium cows at \$2.20.4.5. Fair cows, \$2.75@3.25. Inferior, light and old cows, \$1.00@2.00. The bulk of the southwest cows sold at \$1.75@2.25 and the bulk of all the cows sold at \$2.50@4.85. Canning cows sell at \$2.00@3.00. Veal calves, full range, \$3.50@6.50 per 100 pounds, bulk at \$5.50@6.25 per 100 pounds. Heretics and yearlings sold at \$2.75@3.50

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N. H. GENTRY, Sedalia, Mo., 6 head. SAM W. ROBERTS, Pleasant Green, Mo., 16 head.

A. A. WALLACE, Bunceton, Mo., 10 head. GENTRY BROS., Sedalia, Mo , 6 head.

JUNE K. KING, Marshall, Mo., 10 head. GALLAGHER & MEYER, Highland Station, Kansas, 6 head.

M. B. GUTHRIE, Mexico, Mo.

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applicable to those recently purchased from importers and large breeders. It is merely suicidal to ask such horses to travel long distances each day and do stud service as well. Give the stallion the right sort of a chance. Before starting in on the regular rounds give him plenty of exercise—and then do not arrange too long trips for him each day. A big fat horse cannot do in the heat of the day what he can do handliy in the early morning before the sun reaches high in the heavens. Stallions must have plenty of exercise, we all know that, but it is much better to give it to them in the cool of the morning than it is to make them travel an equal distance during the day and breed mares met besides. Better make a short move each day and let the

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No. 1-2:45 Class Trot \$1.000	No 6-9-96 Class Page
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No. 4-2:18 Class Trot 400	No. 8-2:16 Class Pace
NO. 5-2:30 Class Trot 400	No. 5-Free-for-All Pace 400
No. 11-2-year-old and under Trot 400	No. 10-3-year-old and under Pace 200
Running Races same as last year.	Stakes close June 20.



To us-unknown mysteriousness; Who in Thy power our weak hearts hast, O' hearken to our soul's distress.

We know not what, nor whence we are, What mix of blood flows through our

heart, Whether of earth, or sun, or star, Is formed our strange component part

But Thou dost know, and so to Thee and lay our trials at Thy feet To ask Thee for an answer meet.

cords that bind must some time And we from earth to-where?-must

go, pray Thee, all our worries take, d let peace through our being flo

Sad souls are passing every day, Unheeded oft' by Love's kind touch; Yea, going forth from chilling clay, With faint hearts burdened overmuch.

ome here have lingered many a year, And suffered all things known to grief; Have shed in secret sorrow's tear, Without much comfort or relief;

Have toiled in helpless discontent, In weakness, sometimes asking why. They may not know whence toll was

Or why the weary may not die.

They think of Thee in fearfulness dread the strange, still, vast unknown, ence millions in their helplessness

Have passed without one cry or moan

Home Circle

written for the RURAL WORLD.
INVOCATION.

O, Thou to whom our thoughts are known,
Who sees from whence our troubles come,
To Thee we haste to make our moan,
While to the world our voice is dumb.

small fishing poles thrown across their shoulders, bubbling over with happiness and discussing the twenty-pound fish John's papa had caught and which was two feet long from nose to tip of tall. They pick their way tenderly over the rocks in their bare feet, jumping from one to another, then on down a narrow path until they come to a little one-story frame cottage, before the door of which sits a bright-looking little fellow about even years old, upon the ground. He is digging in the dirt and humming to himself, where the boys come up to where he is.

"Come along, Ed, go fishin' with us,

"Come along, Ed, go fishin with us, say Jack and Ray together.
"Yes, come along," echoes John.
"All right, wait 'till I git my fishin' line," responds Ed, and so saying up be jumps and disappears around the corner of the house, but he soon returns, carrying his fish'ng pole in his little chubby hands. This child is used to climbing over the rocks, and has spent many days over the rocks, and has spent many days sitting on a large projecting one, fishing in the quarry pond. He has lived here with his mother, right down in the edge of the quarry, all his young life, and now to have companions to enjoy his favorite sport with him elates the little one greatsport with him elates the little one greatily. It is only a short distance to the pond and they take their places, sitting quietly and patiently for the fish to bite. All is quiet, the childish voices are hushed in expectancy; the soft shadows of evening are failing, and above them coming from the hill-tops the faint "twit; twee;" of the birds is heard. A beautiful summer evening is closing, and all nature has that subdued quiet influence as if expecting to catch and hold a prize, too.

The short is the short to a five region of the state of t ous surfaces of the system, thereby destroying the foundation of the disease, and giving the patient strength by building to forego much, but where acres are being added, and more stock secured, and no horse is being provided for the save so much faith in its curative powers that they offer One Hundred Dollars for any case that it fails to cure. Send or list of testimonials.

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Teach the women to drive, and instructhem in the intricacies of harnessis. There is a good deal of false sentime garding women's ability to drive a good e. Plainly is she ignorant of driving and never having driven much may require a ten-acre lot in which

as if expecting to catch and hold a prize, too,

There is a splash, the charm is broken — three little figures spring up, and instead of the joy of victory, there is a look of horror and loss depicted in their eyes — one of their number is gone—they saw Ed get up to move; his foot silp and then their little playfellow fall backward into the water below, all in a second's time. Young as they are the moments are not spent in stupidity looking at each other.

"Run, Ray, tell somebody to come quick," commands dirty-faced Jack.

"Here, John, let's get this long pole and hold out to him when he rises," it took only a few moments to give these commands; and at the first words Ray's sturdy legs are carrying him over the

The control of the co

hey say the old boys marched through

the streets in columns grand follerin' the old war tunes they're playin' on the band— d citizens all jimin' in—and little chil-

'And yet it's lonesome-lonesome!-It's a Sund'y day to me.

It pears like-more'n any day I nearly

He was not more than eighteen years old, tall, but strongly built, with rather handsome and intelligent features, somewhat marred by the reckiess life he had led. He had been shot through the lungs and the hemorrhage produced by the wound was the cause of his death. He was burled not far from the scene of his death.

DECORATION DAY ON THE PLACE.

"It's lonesome—sort o' lonesome—it's a Sund'y day to me; It pears like—more'n any day I nearly ever see!

Yit with the Stars and Stripes above, a flutterin' in the air, on ev'ry soldier's grave I'd love to lay a lilly there.

"They say though, Decoration day is gin—they say though, Decoration day is gin—they say though because of the dying outlaw at Howard's Point, in which he gave a description of the boy, that served—the month of act, we're allus home on Decoration day.

The episode that led to the tragedy was an attempt to hold up a stage on the National road a few nights previous to the arrival of the three men at the Hollow. Instead of surrendering as the outlaws. Taken by surprise they made a hasty retreat. One of the balls struck the young man.

His two comrades picked him up and wended their way through the woods, finally reaching the Hollow as already narrated. The subsequent confession of the dying outlaw at Howard's Point, in which he gave a description of the boy, the time at which he joined the band and how he came to them on the Wabash, all tended to indicate him as the boy whose father had sacr.ficed his life in a vain endeavor to find.

Effingham Co., Ill. Effingham Co., Ill.

CARRYING ONE'S LOAD.

street in the late afternoon, carrying between them baskets of clothes for washing. The younger, a little boy, was fretting as he walked; his end of the basket dragging a little, and he limped slightly. "My foot hurts," he complained. "This basket's heavy, and 'taint easy goin' so far when your foot hurts."

Don't the boys know it, from their camp acrost the hill?

Don't they see their comrades comin' and the old flag wavin' still?

"O' can't they hear the bugle and the rattle of the drum?—
Ain't they no way under heaven they can recollect us some?
Ain't they no way we can coax 'em, through the roses just to say
They know that every day on earth's their Decoration day?

"We've tried that—me and mather." Two children were passing along the

Elias takes his rest
in the orchard—in his uniform, and hands
across his breast,
And the flag he died for smilin' and aripullo' in the breezes rough, that its stones bruise our feet ripplin' in the breezes

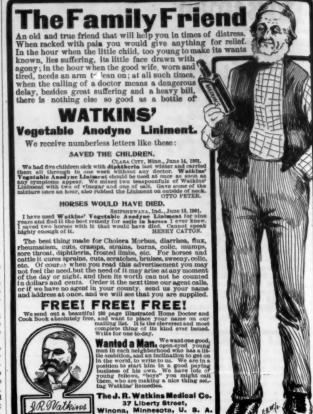
Whether the road is rough or smooth, whether we are happy or sorrowful, the theres!

the trees!

Whether the road is rough or smooth, whether we are happy or sorrowful, the chief thing is still to accomplish the work larger than the control of the con

# **Poultry**







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GROVE - POUTRY - YARDS"

Prize-winning Barred Plymouth Rocks, Mammoth Bronze Turkeys, Pedigreed Scotch Collie Dogs. Won in Barred Rocks at Missouri State Show, Chillicothe. Mo., Dec. 19 to 13; 1st, 3d cock; 2d, 3d cki; 3d, 4th, hen; 1st, 2d 3d, pullet; 1st, Breeding Pen; 2d, Sweepstake in American class; 375 Silver cup for best two cks, two ckis, two hens, two pullets. Barred Rocks owned by exhibitor. Will mate pairs, trios and pens at very low prices. Eggs in season. B. P. R., 33 per setting; 2 set, 35; M. B. Turkeys, E per 3, 35 per 18.

MRS. DELLA MAXWELL, Fayette, Mo.

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PURE BLACK BREASTED RED GAMES. Cockerels \$1.50, Hens \$1.00, Trio, \$3. Eggs in season, \$1.00 per 13. Dure satisfi :xpen

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Mrs. L. M. MONSEES, LIMESTONE VALLEY FARM. SMITHTON, NO. \$5.00 Buys 100 Eggs. \$1.35 One Sitting...\$3.00 Ten Turkey Eggs Brown Leghorn, White Leghorn, Barred Rock. White Rock, Black Minorea and Bronse Turkeys. Stock for Sale. Circular free. Write E. W. GEER, Farmington, Mo.

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White Langshans, S. L. Wyandottes, S.C.
B. Leghorns, Buff Cochins, G. Seabright
Bantams, M. B. Turkey and White China
Geese.

J. M. STONE, Box 30, Hinton, Mo. 15 Eggs, \$1 FRESH HALE BARRED ROCKS Nepentile Poultry Ranch, New Florence, Mc

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Lt. Brahmas, S. L. Wyandottes, scores 91 to 94 3-4.
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BARRED PLYMOUTH ROCKS exclusion Thompson strain. Eggs 82 per 15.
MRS. J. B. JONES, Ashland, Mo.

EGGS FOR HATCHING. High Scoring Black Langshams 81, 18; M. B. Tur-keys 82, 11; Embden Geess 81, 6. MRS. J. T. ARVIN, Boanoke, Mo. BUFF ROCKS, S. L. Wyandottes and S. S. Hamburgs. Good game, try me.
J. B. HAYNES, Ames. Ill.

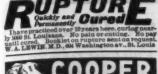
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W. H. KER, Prairie du Rocher, ills.



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A few choice gilts bred and boars ready for; also a good lot of gilts ready to breet for fall litters.

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lamb was put up in a neater "package."
The animal was neat and looked like a heavy weigher, which facts rather deceived the butcher. He, however, was satisfied. Should not the farmer have

The wool crop is one of the surest on

Foot disease rarely originates in high,

A sheep that will yield no profit has no place on the farm.

Sheep are naturally healthy but quickly succumb to disease under unfavorable conditions.

A fleece should possess the propertie of evenness and uniformity; this refer to covering density and quality.

It is important with the wool sent to up in a neat, compact form so that it can be inspected readily. In managing the feet all of this sur

plus horn should be cut away and the hoof left in natural form and flat, that the animals may stand squarely Wool is the farm product that brings

the most money in proportion to what it takes from the farm, with the least la-bor and trouble to the producer.

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# The Markets

WHEAT-No. 2 red, by sample, at 75c WHEAT-No. 2 red, by sample, at 705 skd, on Levee and depot and 756 West to 76670% E. side for bulk corn del., and 75 ct or arrive E. side; No. 3 red at 756 ct. side; No. 2 hard at 77% of Nebraska (Turkey quotable at 760; No. 2 spring at 70760 at 70760 spring at 70760 sp

Turkey quotable at 742; No. 2 spring set and No. 2 mixed at 734c. CORN-No. 2 at 63c E. side; No. 2 at 62c West, 626624c E. side; No. 4 at 61c E. tide; No. 2 yellow at 63146634c E. 604c West side; No. 2 white at 6354664 E. and 444c West side; No. 2 white at 64c to 63c

ATS-No. 2 at 41%@42c West side; No. 41@414c West, 414c E. side; No. 4 at West side; No. 2 Northern at 42c West 44@44%c E., 44%@44%c this side at 430 de West, 44c E. side; at 435c West side.

FLANSEEL-\$1.50.

BRAN—At about 89c; at mill, 90@92c; hips at \$1.

STRAW-Wheat, \$4.50@4.75; oats, \$6; rye,

ST. LOUIS CURB MARKET. WHEAT-July sold at 69%c to puts, 60%c; calls, 62%c.

PRICES ON 'CHANGE.

The following table shows the range of on future and cash grains: Closed Ranged Closed Saturday, Yesterday, Yesterday

Wheat-		
July69 a	69 @ 69%	$69_{72}$ b
Sept	68%@691/4	69% b
Corn-		
July60% b	59% @61%	61% b
Sept	551/2@561/4	561/8 b
Dec4156	40%@41	40%
· rats-		
- July321/2 a	32 @32%	323% b
		27¼ b
Cash wheat, corn and	oats range	d:
Yesterday.S	sturday.La	st year
Wheat-		
27 2 - 7 mm (CMM)	TO 62701/ T/	11/6

Cash wheat, corn	and bats ranged.
Yesterd	ay.Saturday.Last year
Wheat-	
No. 2 red75 @7	61/2 79 @791/2 741/2@
No. 2 hard 731/2@7	4 76 @77 751/2@
No. 2 spring .731/2@.	@
Corn-	
No. 2 mixed.63 @.	641/2@ 421/2@
No. 2 white 63 666	414 65 @66 43 97
No. 3 mixed.62 @6	21/4 631/2@ 421/2@
No. 4 mixed.61 @.	@@
No. 3 wh'te.64 @.	@@
No. 2 yel'w631/2/06	314 64 @ 42 @
No. 3 yel'w63 @.	64 @@
Oats-	
No. 2 mixed.4134 114	2 42 @ 421/2 291/2@
No. 2 north42 @.	421/26 291/26

14 hands, extreme range\$	50	000 70	0
14 hands, bulk of sales	50	000 0	0
141/2 hands, extreme range	88	000 8	0
14% hands, bulk of sales	55	000 6	6 0
15 hands, extreme range	75	00@11	0 6
15 hands, bulk of sales	75	000 9	0 0
151/2 hands, extreme range	90	00@12	5 0
151/2 hands, bulk of sales	95	00@10	6 6
16 to 16% hands, extreme		-	
20.000	190	00/01/0	

and SHORGHUM CANCE SEED—Latest sale proposed (as small lot not prime), at 25 per 105 pounds.

FLANSEED—Nominal at 31.59 per 106 p. 25 pounds.

SINFLOWER SEED—At 27.75 per 106 p. 26 pounds.

CASTOR BEANS—Prime in car lots, 12 per 107 p. 27 pounds.

CASTOR BEANS—Prime in car lots, 12 per 108 p. 27 per 109 p. 28 per bushel on track—smaller lots at 31.50 per bushel lots at 31.50 per bushel on track—smaller lo

per ton: Common, \$59 to \$90; fair, \$550 (Cotton, in the southeastern counties, is generally well worked out and growing GRASS SEEDS—Sales, per 109 pounds; 56 sacks poor millet at \$1.29 as are also meions, and flax is dofinely, as are also meions, and flax is dofinely, as are also meions, and flax is dower of the second in the southwestern counties. Early potatoes are now coming into market, and a large yield is indicated. Pasket, and a large yield is indicated. Pasket, and a large growing finely, apples are also growing finely. Apples are also growing finely. Apples are also growing finely. Apples are dropping badly in many sections, the section between the season. Peaches continue very promising in most of the extreme ceounties, and are reported any much beloved garden. Such unsightly ditches cut crosswise, lengthwise and every other way through my well ordered garden. Well, I did fret some and feel to garden. Well, I did fret some and feel over other way through my well ordered garden. Well, I did fret some and feel over other way through my well ordered garden. Such unsightly ditches cut crosswise, lengthwise and every other way through my well ordered garden. Such unsightly ditches cut crosswise, lengthwise and every other way through my well ordered garden. Well, I did fret some and feel over other way through my well ordered garden. Such unsightly ditches cut crosswise, lengthwise and every other way through my well ordered garden. Well, I did fret some and feel over other way through my well ordered garden. Well, I did fret some and feel over other way through my well ordered garden. Well, I did fret some and feel over other way through my well ordered garden. Well, I did fret some and feel over other way through my well ordered garden. Well, I did fret some and feel over other way through my well ordered garden. Well, I did fret some and feel over other way through my ever ot

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oth early and late varieties. Catt'e have done well in pasture, which has along the house and cow. A great deal of it is for fruit is good, excepting for peaches and plums, the former being the with its of Kaft to the latter. Only a few of the trees set fruit because of the large crop and grow-ushel or cowpeas for will be stronged to ripen and they promise a good crop, too.

The wheat in this county is not more than two-thirds of a stand, much of it the shing sorghum seed I think he will find it an improvement on his way. I incline a board in a box much as a washout time. Strawberries are beginning to ripen and they promise a good crop, too.

The wheat in this county is not more than two-thirds of a stand, much of it the sing winter killed. The most of the farmers were desirous of having pasture, and the severe freezing caused thousands of acres to be sown to oats and corn. What stands in a tub; take the head of short time. Strawberries are beginning to ripen and they promise a good crop, too.

H. F. GRIMSTEAD.

good crop, too.

Horses are scarce and command a good price. Lots of horses are being shipped in from Illinois and sold at semi-monthly auction sales at Orrville. They usually bring fancy prices.

strates of this stock. The demand contained some contained on the strategy of the strategy of

H. F. GRIMSTEAD.

Tarrant Co., Texas, May 28. KAY COUNTY (OKLA.) NOTES.

reads the RURAL WORLD, induced me to give you the foregoing; not that I am not willing to give others the benefit of my experience, but I am slow to experiment and presume others have already I was reading Mr. O. C. Busch's letter

rom Jefferson County, Neb., in the is-sue of April 30, to Mr. John Henderson, who is cropping with me. Mr. H., is acquainted with Mr. Busch, and says Mr.

We have plenty of moisture at present, but our crop must depend on the future rains and if we fail to get rain the crop must surely fail. Such is the prospect for the farmer. The corn in this loca-ity is about all planted. Oats are look-







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